## B.Sc. (C.B.C.S. Pattern) Sem-I

## MIC-01 - Microbiology Paper-I (Fundamentals of Microbiology)

	rages: 2 ne:Three H		Max. Marks : 50
		<ol> <li>All questions are compulsory and carry equal marks.</li> <li>Draw diagrams wherever necessary.</li> </ol>	
1.	Des	scribe Louis Pasteur contribution in detail in development of Microbiology	7. 10
		OR	
	a)	What are Koch's Postulates.	21/2
	b)	Write note on Dust free box.	21/2
	c)	Write short note on Antony Van Leeuwenhoek.	21/2
	d)	Describe F. Redi experiments in support of Biogenesis.	21/2
2.	Des	scribe structure of cell wall of Gram positive bacteria in detail.	10
		OR	
	a)	Write note on fluid mosaic model of cytoplasmic membrane.	21/2
	b)	Write note on capsule and slime layer.	21/2
	c)	Differentiate Prokaryotic cell with Eukaryotic cell.	21/2
	d)	Describe structure of flagella of gram negative bacteria.	2½
3.	Des	scribe any two methods of classification of bacteria.	10
		OR	
	a)	Write note on general criteria used for bacterial classification.	21/2
	b)	Write not eon Whittaker concept of bacterial taxonomy.	21/2
	c)	Write short note on Bergey's manual of determinative and systematic back	cteriology. 2½
	d)	Write about family, order, Division and Kingdom in short.	21/2
4.	Des	scribe lytic cycle of T <sub>4</sub> phage multiplication.	10

	a)	Describe chick embryo method of virus cultivation.	21/2
	b)	Write note on general characteristics of fungi.	21/2
	c)	Write note on general characteristics of viruses.	21/2
	d)	Write note on methanogens and Thermophiles.	2½
5.	Solve	e any ten.	
	a)	What is superbug.	1
	b)	Who discovered mycobacterium tuberculosis.	1
	c)	What is phagocytosis.	1
	d)	What is peptidoglycan.	1
	e)	Write any two examples of endospore producing bactaeria.	1
	f)	What are plasmid.	1
	g)	Who proposed three Kingdom system.	1
	h)	What is taxa.	1
	i)	What is strain.	1
	j)	What is LHT classification of Virus.	1
	k)	What are Archaebacteria.	1
	1)	What are Halophiles.	1

\*\*\*\*\*